

wile coffee 200

COFFEE AND COCOA MOISTURE METER WITH TEST WEIGHT



EN USER INSTRUCTIONS



WILE 200 COFFEE, COFFEE AND COCOA MOISTURE METER

Thank you for choosing Wile moisture meter.

Wile 200 Coffee measures moisture, hectolitre mass (test weight) and temperature easily and quickly. The meter has been developed to monitor the measurement conditions and guide the user through the process to achieve the most accurate measurement results. The meter uses the temperature and hectolitre mass results automatically to improve the accuracy of moisture measurement. The meter is equipped with a patented sample levelling system. The excess beans removed during the levelling process remain neatly in the groove running around the measuring cup. To get the best user experience, please read these user instructions carefully before using the meter.

Content of the delivery set



- 1. Meter
- 2. Carrying case
- 3. USB-cable
- 4. Batteries
- 5. User instructions

Use

Preparing for measurement

Important! The scale settings of Wile meters are adjusted to match the common standard bean types as closely as possible. However, properties of beans are likely to vary due to, for instance, varying growing conditions or new species. Therefore, we advise you to always make sure before harvesting that the readings of your meter match the readings obtained in oven-testing with the bean type you handle. Always take several samples and use their average as the result.

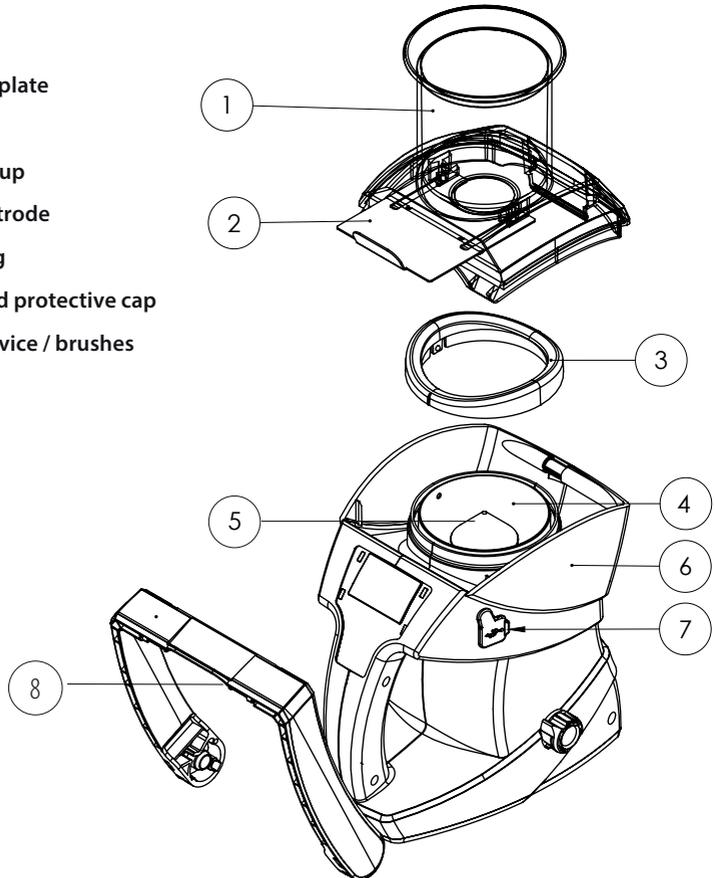
You will get the best measurement accuracy if the temperature of the meter and the beans is within the range of 16–32°C. The temperature of the meter and beans have to match each other as closely as possible. And it is advisable to store the sample in a container that is as air-tight as possible.

Functional symbols

SYMBOL	DEFINITION
	The battery is low and needs to be replaced.
< 4.0 %	The beans are too dry for accurate measurement (4 % is the lower limit for the selected beans).
> 28.0 %	The beans are too moist for accurate measurement.
~ 34 %	An estimate of the beans moisture level when the value is outside the precise measurement range.
	Error message or warning (see the error list at the end of this manual).

Moisture meter and its parts

1. Drop barrel
2. Retractable plate
3. Collar
4. Measuring cup
5. Central electrode
6. Meter casing
7. USB port and protective cap
8. Levelling device / brushes



Measurement



Place the meter on a stable and sturdy horizontal surface. Ensure that the measuring cup is empty. Place the **drop barrel** with the rear edge first on top of the meter, and press it down until the leveller locks the barrel.



Start the meter by pressing the start button once . Use the arrow keys to select the bean scale to be used and press **ENTER** . Start the measurement process by pressing **ENTER** again.



Make sure that the retractable plate of the drop barrel is pushed in so the beans don't fall into the measuring cup.



Fill the drop barrel with beans. Simultaneously, the meter tares the weighing scales and moisture sensor while the measuring cup is empty.



When the meter indicates **"PULL"**, release the beans in the drop barrel by pulling the retractable plate open with a quick movement, and let the beans flow from the drop barrel into the measuring cup.



When the meter indicates **"REMOVE THE DROP BARREL"**, pull the leveller towards you and lift the drop barrel off.



Level the sample by pushing the **leveller** over the measuring cup and back into its place. The meter detects that the sample is levelled and starts measuring automatically. Wait until the result is displayed.

After the measurement, the sample used has to be disposed of in an appropriate manner.

Functions and settings

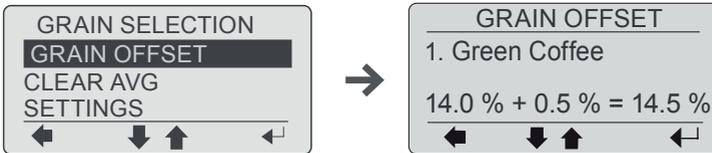
The meter settings can be viewed and changed from the "SETTINGS" menu. Use the arrow keys to scroll to the desired setting and change it with the **ENTER**  key.

Adjusting the measurement result

The result given by the meter can be adjusted on the basis of known information from a sample. To begin the grain offset (scale adjustment) procedure, select "GRAIN OFFSET" from the menu. After that, adjust the setting with the   arrow keys, and then press **ENTER** .

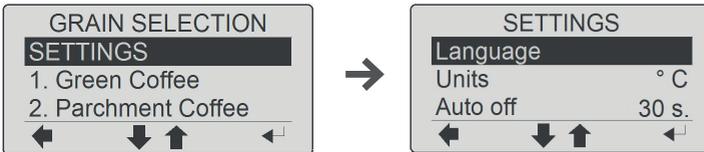
The **GRAIN OFFSET** setting is individual to each type of bean.

The offset view presented (i.e., the adjustment screen) depends on whether a measurement result is visible on the display.



Language selection

Selection of the preferred menu language.



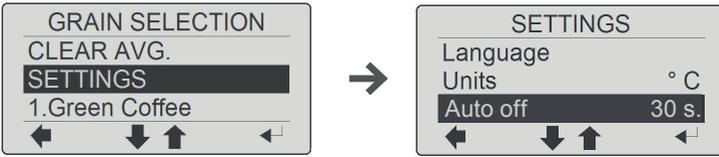
Units

Selection of the temperature and hectolitre mass (test weight) units. Press the green **ENTER**  button to select either the Celsius or Fahrenheit temperature scale. With the Celsius scale, the unit used for hectolitre mass is kg/hl, while with the Fahrenheit scale it is lb/bu, as used in the United States.



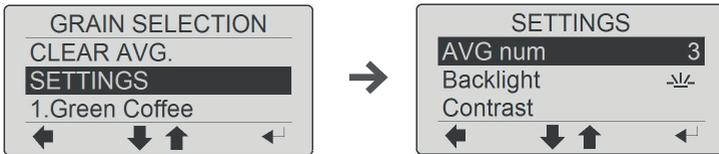
Auto off (Auto shutdown)

If the meter is not in use, it shuts down automatically after the set period of time (30 sec, 1 min, 5 min, 10 min, 20 min). The meter can also be turned off by pressing and holding the red button.



Calculating the average value

The meter automatically calculates the average of the previous measurements. In the settings, you can adjust the number of previous results (3, 6 or 9 measurements) to be averaged. The average value can also be reset by selecting "CLEAR AVG".



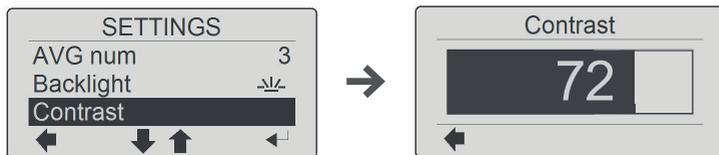
Backlight

The display backlight can be switched on or off.



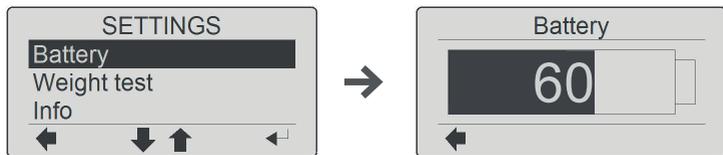
Contrast

The display contrast is adjustable.



Battery

The battery status can be checked. If the battery charge level is below 22 %, the meter will warn you of it at start-up. The reliability of the measurement result shown on the display does not depend on the battery charge level.



Testing of the weighting scales

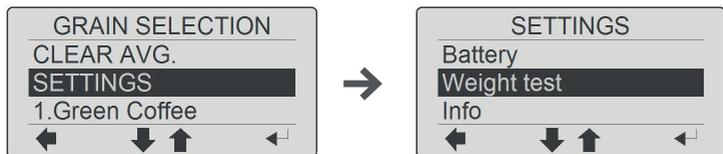
The functioning of the weighting scales of the meter can be checked in the weighting scales test mode. Use a maximum weight of 500 grams for checking (e.g., a small amount of dry gravel in a sealed bag). **NOTE!** Bean weighing is an important part of moisture measurement. Malfunctioning weighting scales produce not just a false hectolitre mass reading but also a false moisture content reading. Before testing the weighting scales, remove the drop barrel and check that the measuring cup is empty, the leveller's brush is not leaning against the measuring cup and place the meter on a stable horizontal surface. Start testing the weighting scales and wait for the tared reading. Now the device works like postal weighting scales.

- Place a maximum weight of 500 g on top of the measuring cup and read the balanced result.
- Remove the weight and read the balanced result.
- Repeat this operation several times and make sure that the result with and without the weight stays roughly the same.
- Compare the readings with the readings of the weighting scales you know to be accurate.

If the weighing result is incorrect, the result takes longer than a couple of seconds to balance, or the result varies considerably when the weighing is repeated.

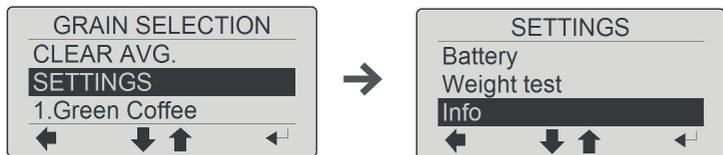
- The scales might be dirty or defective.
- Check that there are no beans or husks under the collar on the edge of the measuring cup causing friction on the scales.

Note: the weighting scales are designed to tare automatically before each measurement of beans; in the weighting scales test mode, a drift of the result by a few grams is normal.



Info

The Info view contains information about the meter's software versions for maintenance and customer service needs.



Maintenance of the meter

- To clean the meter, wipe it with a dry or damp cloth.
- Do not use strong detergents, and make sure that moisture does not get inside the meter.
- Store the meter in its carrying case in a dry place, preferably at room temperature.



Error messages and warnings

This measuring device displays error messages, the purpose of which is to guide the user in order to get the most reliable measurement results and to make sure that the meter is in good condition. You can check the symbols, their underlying causes and related solutions in the table.



IMAGE	CAUSE	SOLUTION
	Critical error.	The meter needs to be delivered to an authorised service centre.
	The same weighing result with and without beans.	Start the measurement from the beginning. If it happens again, check the weighting scales.
	The tare result of the scales is too high.	Was the measuring cup empty during the taring process? Perform a weight test and check the scales.
	Weight measurement uncertain. / The meter vibrated during the measurement. Increased measurement uncertainty.	Keep the meter steady.
	The moisture measurement result stabilises slowly.	Keep the meter steady. This could occur with very moist samples.
	Weight measurement too uncertain. / The meter vibrated too much during the measurement.	Keep the meter steady.
	The sample temperature below 2°C. / The measurement uncertainty is high.	To achieve the best results, the meter and sample temperature should be between 16°C and 32°C.
	The sample temperature above 50°C. / The measurement uncertainty is high.	To achieve the best results, the meter and sample temperature should be between 16°C and 32°C.
	The difference between the meter and the sample temperatures is large. / The measurement uncertainty has increased.	The difference between the meter and the sample temperatures should be as small as possible.
	Weight measurement result over 330 g.	Check that the leveller is not left above the measuring cup. / Check the scales.
	Weight measurement result under 50 g.	Check that the leveller is not left above the measuring cup. / Check the scales.
	Hectolitre mass (test weight) exceeds the normal value by over 20%.	Measurement uncertainty increased. / Check the scales.
	Hectolitre mass below the normal value by over 20%.	Measurement uncertainty increased. / Check the scales.
	The measuring cup was not emptied before the measurement.	Empty the measuring cup and keep it clean. Make sure you follow the meter's instructions in order to time the drop of grain into the measuring cup correctly.

Warranty

The meter has a two-year warranty against material and manufacturing defects. The warranty is effective for a period of 24 months from the date of purchase. The customer has to deliver the defective product to the manufacturer or the seller. A description of the defect, contact information, and a copy of the purchase receipt showing the date of purchase has to be provided with it. The manufacturer will repair the defective product or replace it with a new product as soon as possible. The manufacturer's maximum liability is limited to the purchase price of the product.

The manufacturer is not responsible for damages resulting from careless handling, misuse, dropping of the unit, or repairs made by a third party. The warranty does not cover any consequential damages that are directly or indirectly caused by the use of the product or the fact that it could not be used.

EU WEEE Statement

Under the WEEE Directive (2012/19/EU), this product should not be discarded with household waste but instead collected and treated separately as waste electrical and electronic equipment in compliance with local legislation. Discarded batteries must be recycled in accordance with local regulations.



EU Declaration of Conformity

According to ISO/IEC 17050-1 Farmcomp Oy (Jusslansuora 8, 04360 TUUSULA, FINLAND) under its sole responsibility hereby declares, that its products Wile 200 Coffee conforms to the EMC directive 2014/30/EU by following the harmonised standard EN IEC 61326-1:2021 and to the RoHS directive 2011/65/EU as amended by directive (EU) 2015/863 by following the harmonised standard EN IEC 63000:2018. Signed Declaration of Conformity documents are filed at Farmcomp Oy, Tuusula.

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